

1. Joe needs to find a new apartment. He can afford to spend up to 25% of his salary on rent. He makes \$1638 per month. Which estimate best matches what he can afford for rent?

A about \$400 B about \$600
C about \$500 D about \$300

2. The Andrews family wishes to repaint their living room. The area to be painted is 416 square feet. The paint costs \$10.95 a gallon. What other information is needed to determine how much the paint needed will cost?

A what colors of paint are available
B the number of rooms in the house
C who is going to do the painting
D the number of square feet one gallon of paint will cover
E the dimensions of the room

3. Consider the function $f(x) = 2x^2 - 1$. Which of the following is a correct pairing of independent and dependent values for the function?

A (3, 35) B (4, 33)
C (3, 17) D (-2, -9)

4. Lemon Car Rental charges a flat fee of \$35 plus 65¢ per mile to rent a car. To determine the cost for renting a car from Lemon Car Rental, use the equation $y = 35 + 0.65x$. What are the independent and dependent quantities, respectively?

A Cost, Miles B Weeks, Miles
C Miles, Weeks D Flat Fee, Cost
E Miles, Cost

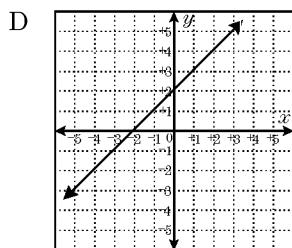
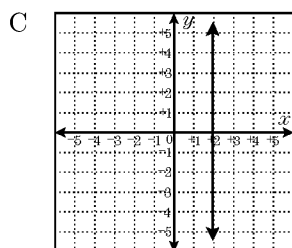
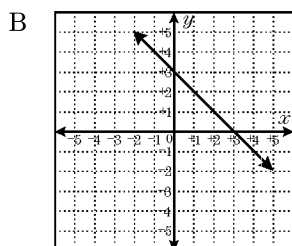
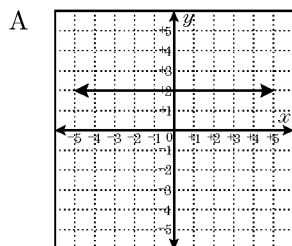
5. Daniel and Paul have saved \$37.00 to buy their mother a present. Daniel saved \$8.00 less than Paul. How much money did Paul save?

A \$14.75 B \$16.25 C \$18.50
D \$20.00 E \$22.50

6. The length of a rectangle is two more than the width. The perimeter of the rectangle is 72 meters. What is the length of the rectangle?

A 15 m B 17 m C 19 m
D 21 m E 23 m

7. Which of the following lines has a negative slope?



8. Examine the data in the table.

x	-3	-1	1	4
y	2	8	14	23

What is the slope of the line that contains these data points?

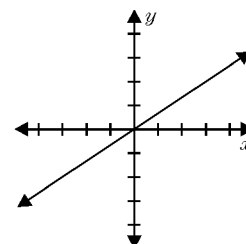
- A 6 B $\frac{1}{3}$ C 3 D $\frac{1}{6}$

9. Given a line with a slope of 4, how does the graph of the line differ if the slope is changed to -4 ?

- A It moves 8 units on the y -axis.
 B It moves 8 units on the x -axis.
 C It changes from uphill to downhill.
 D It changes from downhill to uphill.
 E There is no change in the graph of the line.

10. The graph of the function $f(x) = \frac{2}{3}x$ is shown. If the graph is shifted up by 4 units, which equation describes the new line?

- A $f(x) = \frac{2}{3}(x - 4)$
 B $f(x) = \frac{2}{3}x + 4$
 C $f(x) = \frac{2}{3}x - 4$
 D $f(x) = 4x + \frac{2}{3}$
 E $f(x) = \frac{2}{3}(x + 4)$



11. For which of the following linear functions is the y -intercept also a zero of the function?

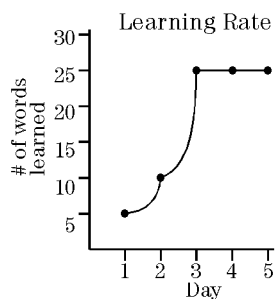
- A $y = x + 1$ B $y = -x + 1$
 C $y = \frac{1}{2}x + \frac{1}{2}$ D $y = 6x$

12. The table of values is for the linear function $y = 2x + 4$.

x	y
-3	-2
-2	0
0	4
1	6
3	10

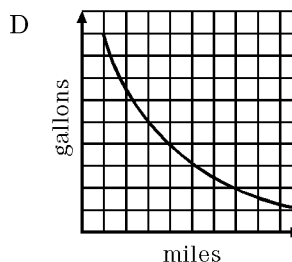
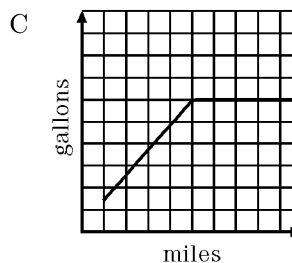
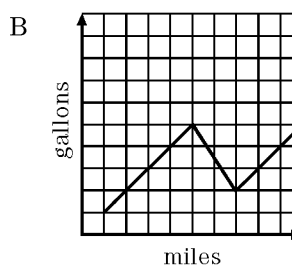
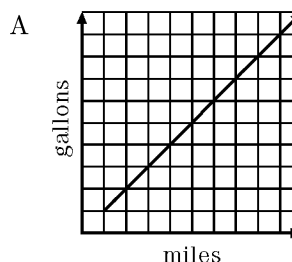
When the function is graphed, what are the x - and y -intercepts?

- A x -intercept -2 ; y -intercept 4
 B x -intercept 1 ; y -intercept 6
 C x -intercept 0 ; y -intercept 4
 D x -intercept -2 ; y -intercept 0
13. This graph shows a student's rate for learning new words over 5 days. Which statement best describes the student's learning rate?

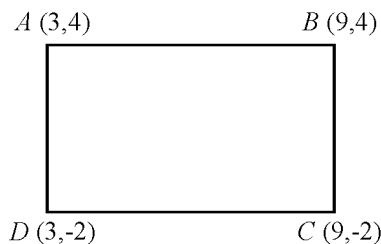


- A It increased for the first 3 days, then remained the same.
 B It decreased for the first 3 days, then remained the same.
 C It remained the same for the first 3 days, then increased.
 D It remained the same for the first 3 days, then decreased.

14. Which graph best represents the relationship between the number of gallons of gas in a car's tank and the number of miles driven when the car starts off with a full tank?



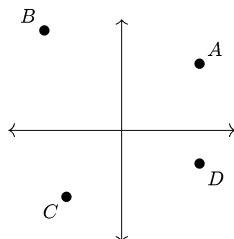
15. The vertices of a rectangle on the Cartesian Coordinate System are shown in the diagram. What are the coordinates of the center of this rectangle?



- A (6, -1) B (-6, -1)
C (-6, 1) D (6, 1)

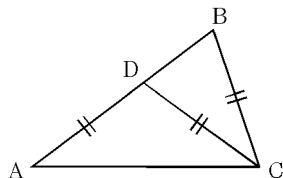
16. In the graph, which of the following conditions are true for point D ?

- A $x > 0, y < 0$
B $x > 0, y > 0$
C $x = 0, y = 0$
D $x < 0, y > 0$
E $x < 0, y < 0$



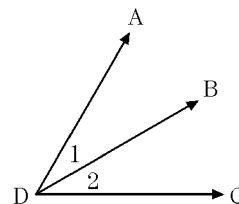
17. In the figure, $AD = CD = CB$ and $m\angle A = 40^\circ$. What is the measure of $\angle DCB$?

- A 10° B 20°
C 25° D 35°
E 40°

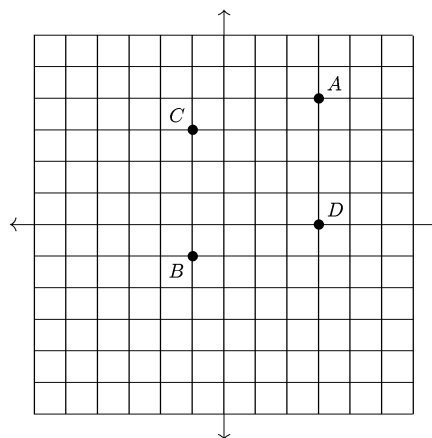


18. In the diagram, \overline{DB} bisects $\angle ADC$. If $m\angle 1 = 4x + 7$ and $m\angle 2 = 6x - 13$, what is the measure of $\angle ADB$?

- A 47° B 65°
C 70° D 78°
E 80°



19. With the given graph, determine which line contains point B .



- A $y = x - 1$ B $y = -3x + 3$
C $y = \frac{1}{3}x + 3$ D $y = 2x + 1$
E $y = x - 3$

20. Which point is on the graph of $2x - y = 7$?

- A (3, 2) B (3, -1)
C (2, -1) D (1, 3)

Geometry CA Final Review (Part1) 11/30/2009

1.
Answer: A
CodePath: EAS.TMM.8.6.14B.26

2.
Answer: D
CodePath: EAS.TMM.8.6.14B.3

3.
Answer: C
CodePath: EAS.THM.A.1.A.9

4.
Answer: E
CodePath: EAS.THM.A.1.A.6

5.
Answer: E
CodePath: EAS.THM.A.7.A.2

6.
Answer: C
CodePath: EAS.THM.A.7.A.13

7.
Answer: B
CodePath: EAS.THM.A.6.A.2

8.
Answer: C
CodePath: EAS.THM.A.6.A.5

9.
Answer: C
CodePath: EAS.THM.A.6.C.3

10.
Answer: B
CodePath: EAS.THM.A.6.C.21

11.
Answer: D
CodePath: EAS.THM.A.6.E.3

12.
Answer: A
CodePath: EAS.THM.A.6.E.9

13.
Answer: A
CodePath: EAS.THM.A.2.C.3

14.
Answer: D
CodePath: EAS.THM.A.2.C.9

15.
Answer: D
CodePath: EAS.TMM.8.3.7D.9

16.
Answer: A
CodePath: EAS.TMM.8.3.7D.4

17.
Answer: B
CodePath: EAS.THM.G.2.B.2

18.
Answer: A
CodePath: EAS.THM.G.2.B.8

19.
Answer: D
CodePath: EAS.THM.G.7.A.6

20.
Answer: B
CodePath: EAS.THM.G.7.A.14